

## MCDR INSPECTION REPORT

### General

S.N.	Particulars	Details
1	File No.	CHG/RPR/LST-38CHG14024
2	Mine code	38CHG14024
3	IBM Registration Number under rule 45 of MCDR,2017	IBM/4952/2011
4	Name of the Mine	Century Cement Limestone Mine (74.843ha)
5	Date of Inspection	18/06/2021
6	Name of Inspecting Officer	Shri B. L. Gujar (Regional Controller of Mines) Shri Rudra N. Mishra (Senior Mining Geologist)
7	Accompanying Mine Official with Designation	1. Shri B. P. Mishra Sr. Vice President 2. Shri R P S Bhatia, Mines Manager 3. Shri S K Tamrakar, Mining Engineer 4. Shri R R Pimpalkar, Geologist
8	Last date of Inspection & Officer	06/11/2020 Shri S. Kartikeya (Junior Mining Geologist)
9	Total Lease Area (Ha) with breakup of non-forest and forest land	Non- forest: 74.843 hect. Forest Land: 00.00 hect. Total Land: 74.843 hect.
10	Name of the Lease, Address, Phone, email and fax number	M/S Ultra Tech Cement Limited, (Earlier M/s Century Textiles and Industries Ltd). Century Bhawan, Dr. Annie Besent Road, Warli, Mumbai-400030. Telephone No- +91 2224957000 Fax No- +91 2224309491 Email: - <a href="mailto:utcl_bcw.mines@adityabirla.com">utcl_bcw.mines@adityabirla.com</a>
11	Village	Bahesar and Tandwa
12	Taluka/Mandal	Tilda
13	District	Raipur
14	Pin code	493116
15	State	Chhattisgarh
16	Post Office	Baikunth
17	Nearest Police Station	Tilda-Neora
18	Nearest Railway Station	Tilda-Neora
19	Date of Grant of Mining Lease	17/09/2002. Transferred from Century Textiles & Industries Ltd to M/s Ultra Tech Cement Ltd on 1/10/2019. and lease period- 30/09/2002 to 29/09/2032 (30 years)
20	Date of Execution	30/09/2002
21	Date of opening of Mine	01/07/2004
22	Date of First Renewal, if applicable and its period & expiry	Mining lease has been transferred from Century Textiles & Industries Ltd to M/s Ultra Tech Cement Ltd on 1/10/2019. Revised Transfer Mining Lease Agreement signed/

		registered on 26/02/2020
23	Date of Second Renewal, if applicable and its period & expiry	Not Applicable.
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable.
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri K.C.Jhanwar M/s. Ultratech Cement Limited., Ahura Centre, B Wing 2 <sup>nd</sup> Floor, Mahakali Caves Road, Andheri (E) Mumbai-400093 Email-kailash.jhanwar@adityabirla.com Date of appointment – 01.10.2019
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri B.P. Mishra Ultratech Cement Limited, Baikunth Cement Works PO: Baikunth – 493 116, Distt. Raipur (C.G.) Email – <a href="mailto:bp.mishra@adityabirla.com">bp.mishra@adityabirla.com</a> M.No. – 9424207037 Date of appointment – 01.10.2019
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri R P S Bhatia Ultratech Cement Limited, Baikunth Cement Works PO: Baikunth – 493 116, Distt. Raipur (C.G.) Email – <a href="mailto:rps.bhatia@adityabirla.com">rps.bhatia@adityabirla.com</a> M.No. – 942552611 Date of appointment – 11.10.2006
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Shishir Kumar Tamrakar M.Tech Holder of 1 <sup>st</sup> Class Mines Managers Certificate of competency Ultratech Cement Limited, Baikunth Cement Works PO: Baikunth – 493 116, Distt. Raipur (C.G.) M.No.-7354884205 Email – <a href="mailto:s.tamrakar@adityabirla.com">s.tamrakar@adityabirla.com</a> Date of appointment – 11.10.2006 Total experience – 16 years
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 55 & carrying out their duties as per rule 54 & 55 (MCDR 2017).	Yes, Narendra Kumar Payasi, M. Tech (Applied Geology) Century Cement, PO. - Baikunth, Taluka - Tilda, District - Raipur -493116 (Chhattisgarh) Telephone No- 07721-261222 Date of Appointment: 16/10/2008
30	Date of Approval of Mine Plan/Modified Mine Plan with five-year period and specific condition in approval letter, if any.	Mining Plan approved vide letter no: 314(3)/2000-MCCM (C)/MP-18 Nagpur dated-23/04/2001. Proposal Period: 2004-05 to 2008-09. Modified Mining Plan approved vide letter no: 314(3)/2000-MCCM (C)/S-4 Nagpur dated-14/01/2005 Proposal Period: 2004-05 to 2008-09.
31	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific	1 <sup>st</sup> Scheme of Mining Plan approved vide letter no: 314(3)/2008-MCCM (C)/S-33 Nagpur dated-17/07/2009.

	condition in approval letter, if any.	Proposal Period: 2009-10 to 2013-14. 2 <sup>ND</sup> Scheme of Mining Plan approved vide letter no: RPR/LST/MPLN-737/NGP, Nagpur dated-11/06/2014 Proposal Period: 2014-15 to 2018-19. 3 <sup>rd</sup> Scheme of Mining Plan approved vide letter no: RPR/LST/MPLN-1178/2018/Raipur dated-12/11/2018. Proposal Period: 2019-20 to 2023-24
32	Mineral(s) granted in lease and approved for Mining	Limestone
33	Method of Mining (Opencast, Underground)	Opencast
34	Category (Fully Mechanized, Others or Manual)	Category -A, Fully Mechanized
35	Captive/Non-Captive	Captive for own century cement plant.
36	Environmental Clearance	1.8 Million tones (For Both Lease 237.003 ha and 74.843ha together)
37	Status of Financial Assurance as per rule 27 of MCDR, 2017	Bank guarantee of Rs 1,86,77,000/- has been submitted as Performance Security to State Govt.

### Exploration

S.N.	Item	Proposals (2020-21)	Actual Work(2020-21)	Remarks
1a	Backlog of previous year	Nil	Nil	Entire ML area explored and Mineralized zone explored in G1 category.
1b	Exploration over lease area for Geological axis 1 or 2.	No exploration has been proposed	Nil	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	No exploration has been proposed	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	No exploration has been proposed	Nil	
1e	Balance reserves as on 01.04.21	Under (111): 4.0 million tonnes Under (211): 3.3 million tonnes		
1f	General remarks of Inspecting officer on geology, exploration etc.	The limestone deposit of Baikunth belongs to the sediments of Chhattisgarh basin which is horizontal, thick bedded and classified as stromatolitic limestone of Raipur Group. Other associated rocks are dolomitic limestone and shale. The overburden consists of hard murrum and clay with an average thickness of 1.5metres. Entire ML area explored and Mineralized zone explored in G1 category.		

### Development

S. N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
2a	Location of Development w.r.t. lease area	All three benches	Top bench is lagging behind and not kept sufficiently	

			advanced from limestone benches	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	One Bench for OB & three Benches for Ore	One Bench for OB & three Benches for Ore	
2c	Stripping ratio or ore to OB ratio	1:0.161	1:0.155	
2d	Quantity of topsoil generation in m <sup>3</sup>	Not given in Proposal	3895 m <sup>3</sup>	
2e	Quantity of overburden generation in Tones	193937	170021	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Violation pointed out for lacking in development.		

### **Exploitation**

S.N	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
3a	Number of pits proposed for production	One pit	One pit	
3b	Quantity of ROM mineral production proposed (2020-21)	1200000T	1096910.08T	
3c	Recovery of Salable/usable mineral from ROM production	1200000T	1096910.08T	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	< 34% CaO >4% MgO	< 34% CaO >5% MgO	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	34% to 39%CaO	34% to 38%CaO	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not given in Proposal	Nil	
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB- 0.5 -3.0M. Ore- 6 -10.0M.	OB- 0.5 -3.0M. Ore- 6 -10.0M.	
3m	Total area covered under excavation /pits	18.63Ha	16.37Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.161	1:0.155	
3o	Total area put in use under	Pit-16.370 ha,	Pit-16.370 ha,	

	different heads at the end of year	Reclaimed: 2.610 ha, Infrastructure, workshop, Admin& Building, Roads etc: 1.00, Other purpose: 0.12 end of scheme period.	Reclaimed: 2.610 ha, Infrastructure, workshop, Admin& Building, Roads etc: 1.00, Other purpose: 0.12 end of scheme period.	
3p	Production of Limestone in Tones mineral during last Five-years period, as Applicable	2016-17	500000 T	474953.54 T
		2017-18	500000 T	499184.90 T
		2018-19	500000 T	498712.76 T
		2019-20	1200000T	1121541.46 T
		2020-21	1200000T	1096910.08 T
3q	General remarks of inspecting officer on method of mining etc.	Method of mining is Open cast mechanised mining with shovel and dumper combination.		

### **Solid Waste Management-Dumping**

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	One	One	Only one top soil dump and all waste to be dumped in backfilling area. One Dump has been rehabilitated by plantation. Active dump is top soil Dump.
4b	Location of topsoil, OB & mineral reject dumps	Southern west part of lease area	Southern west part of lease area	
4c	Number of Dumps within lease area and outside lease area	02 Dumps within ML area	02 Dumps within ML area	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	On earmarked sites. Outside UPL	On earmarked sites. Outside UPL	
4e	Number of Active & Alive dumps	01 Active Dump	01 Active Dump	
4f	Number of deed dumps	01	01	
4g	Number of dumps established	01	01	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	Garland drain-150m. Retaining wall-70m	Garland drain-150m. Retaining wall-72m	
4j	Number of settling ponds	01	01	
4k	Specific commends of inspecting officer on waste dump management	Simultaneous backfilling is carried out in the worked-out area. Active dump is top Soil dump.		

**Solid Waste Management-Backfilling**

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not in proposal	Non-Mineralised zone demarcated before started backfilling.	
5b	Area under backfilling of mined out area	0.5 Ha	0.26 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Yes	Yes	
5d	Total area fully reclaimed & rehabilitated	Not in proposal	Reclaimed area:0.49 Ha Rehabilitated area: 1.00 Ha	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	The backfilling and reclamation work are broadly in order.		

**Progressive Mine Closer Plan**

S.N .	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks		
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 23E (2). Details should be given in the format as given in Annexure-20	Yes	Yes			
6b	Management of worked/mined out benches	Nil	Nil			
	Area available for rehabilitation (Ha)					
	Afforestation done (ha)				1.0ha	1.0ha
	No. of saplings planted during the year				1000 Nos	1290 Nos
	Cumulative no. of plants				Plantation	46936 Nos
	Any other specific method of rehabilitation				Not proposed	Not available lease wise
Cost incurred on watch & care during the year						

6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L*B*D) ii) Void filled by waste/tailings iii) Afforestation on the backfilling iv) Rehabilitation by making water reservoir v) Any other specific means	0.0 ha 1.0 ha	0.00 ha 1.00 ha	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	No Proposal	Nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	The PMCP work is broadly as per proposal. Area aesthetic beauty is increased due to dense plantation.		

### **Mineral Conservation**

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	No Proposal	Nil	No sorting and any other beneficiation process adopted. Due to using pet coke and imported coal low grade of Limestone also consumed.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No Proposal	Nil	
7c	Different grade of mineral sort out at mine	No Proposal	Nil	
7d	Any beneficiation process at mines	No Proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No sorting and any other beneficiation process adopted. Due to using pet coke and imported coal low grade of Limestone also consumed. High grade limestone purchased from the nearby area.		

### **Environment**

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Yes	yes	

8b	Concurrent use or storage of topsoil	Yes	yes
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	No Proposal	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	By Backfilling	By Backfilling
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	0.5ha	0.26 ha
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Not available	At present 46936 Nos of tree have been planted.
8g	Survival rate	No Proposal	97.58%
8h	Water sprinkling on roads to control airborne dust	Yes	106 Nos of sprinkler along haul road and two Nos of water tanker for water spraying on haul road.
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Environment protection measures follow as per proposal and aesthetic beauty increased around the mine area.	

### **Compliance of Rule 45**

<b>S. N.</b>	<b>Item</b>	<b>Comments</b>	<b>Remarks</b>
9a	Status of submission of monthly and Annual returns	M.R. Submitted up to-June-2021 A.R. submitted up to- 2020-21	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-16.370 ha, Reclaimed: 2.610 ha, Infrastructure, workshop, Admin& Building,Roads etc: 1.00, Other purpose: 0.12 end of scheme period.	
9d	Scrutiny of Annual return on afforestation	Within Lease area: 1290 Nos Survival Rate -97.58%, Outside Lease area: 225 Nos Survival Rate -96.62%,	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	




9f	Scrutiny of Annual return on ROM stock and/or grade ore	1096910.08 Tproduction,Opening Stock: 0.00 T, Closing stock: 0.00 T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Rs. 332.78per ton ex-mine price and cost of production:Rs. 332.78.	
9i	Scrutiny of Annual return on Fixed assets	Rs 257206192.00as per annual return	
9k.	Scrutiny of Annual return on mining Machinerries	Type of Machinery	Capacity of each Unit
		Blast Hole Drill	115.00MM
		Shovel (Hydraulic)	3.600Cum
		Dumper	35.00 Tonne
		Dozer	324.00 HP
		Explosive Van	7.340Tonne
	Front end Loader	4.6Cum	No. of Unit
			1
			2
			8
			1
			1
			1

Details of Violations observed during current inspection: -

Type of violation			
11(1)	Mining operations in the mining lease are not being carried out in accordance with as per the proposal given in approved review of Mining plan dated 12/11/2018 to the extent given below.		
	Items	Proposal	Deviation done
	1) Development work.	Top bench was to be kept 60 mts advance from limestone bench.	Developmental work at top bench is lagging behind and top bench is not kept sufficiently advanced from limestone benches.
19(1)	Log books of heavy earth moving machinery used in mines in respect of each machine showing date-wise account of hours worked, hours not worked, reasons for non-working, consumption of fuel or energy and lubricants and output of the machine during the corresponding working hours, have not been maintained.		

No earlier violations is out standing.

Date: 15/07/2021

  
B.L.Gurjar , RCOM